

**SECTION I**  
**AMENDMENTS**

**IN THE CLAIMS:**

Please cancel claims 20-26 without prejudice.

Please add new claims 31-33 presented below.

**Complete Listing of the Claims**

Upon entry of this response, the claims will stand as follows. The following listing of the claims will replace all prior versions and listings of the claims in the present application:

1-26. (Canceled)

27. (Previously presented) A method of increasing the content of one or more transgene-coded proteins or peptides in a transgenic potato plant comprising inhibiting a potato plastidary ATP/ADP transporter gene in said plant by antisense inhibition thereof, wherein the potato plant is transformed with and expresses (i) an antisense gene construct for the plastidary ATP/ADP transporter gene, (ii) a selectable marker gene and (iii) one or more further desired transgenes, wherein the content of the transgene-coded protein or peptide in said transgenic potato plant is increased relative to the content of the transgene-coded protein or peptide in a control plant of the same genetic background.

28. (Previously presented) The method according to claim 27, wherein the expression of the transgene-coded proteins or peptides is constitutive or is regulated temporally, locally or inducibly.

29. (Previously presented) The method according to claim 27, wherein several transgene-coded proteins or peptides are expressed in parallel or sequentially.

30. (Previously presented) The method according to claim 27, wherein the antisense construct suppressing the expression of the plastidary ATP/ADP transporter is a cDNA of the plastidary ATP/ADP transporter in antisense orientation.

31. (New) The method according to claim 27, wherein the transgene-coded proteins are under the control of a promoter selected from the group consisting of *Agrobacterium tumefaciens*

nopaline synthase promoter, cauliflower mosaic virus 35S promoter and mannopine synthase promoter.

32. (New) The method according to claim 27, wherein the one or more further desired transgenes codes for a protein selected from the group consisting of an antibody, a receptor, a growth factor, a hormone, a specific antigen, an interferon, an immunoglobulin, a growth hormone, insulin, collagen, plasminogen activator, blood factor, a histocompatibility antigen, a tumor marker protein and a viral protein.

33. (New) The method according to claim 27, wherein the expression of the transgene-coded proteins or peptides is increased in transgenic potato tubers.

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